

### **Claim Amendment**

**Please amend the claims according to the following listing of claims and substitute it for all prior versions and listings of claims in the application.**

**1. (original) A liquid crystal display (LCD) structure, comprising a first substrate panel, a second substrate panel, and a liquid crystal layer disposed between the first substrate panel and the second substrate panel, a plurality of pixel portions being formed by respective electrodes for applying a voltage to the liquid crystal layer, each of the pixel portions comprising**

**an organic insulating layer over the first substrate panel, wherein the surface of the organic insulating layer has a plurality of protrude/recess structures thereon;**

**a conformal reflective layer over the organic insulating layer, wherein the conformal reflective layer serves as a reflector of light;**

**a dielectric layer over the conformal reflective layer, wherein the dielectric layer has a smoother upper surface than the bumpy organic insulating layer; and**

**a first transparent conductive layer over the dielectric layer.**

**2. (original) The LCD structure of claim 1, wherein the first substrate panel includes a glass panel.**

**3. (original) The LCD structure of claim 1, wherein the material forming the organic insulating layer includes an acrylic resin.**

4. (original) The LCD structure of claim 1, wherein the material forming the organic insulating layer includes a photosensitive resin.

5. (original) The LCD structure of claim 1, wherein the first substrate panel further includes a thin film transistor having a gate electrode, a source terminal and a drain terminal over the first substrate panel.

6. (original) The LCD structure of claim 5, wherein the first transparent conductive layer is connected to the thin film transistor for controlling the liquid crystal layer.

7. (original) The LCD structure of claim 1, wherein the material forming the conformal reflective layer includes aluminum or silver or a reflective non-conducting material.

8. (original) The LCD structure of claim 1, wherein the dielectric layer includes a color filter layer.

9. (original) The LCD structure of claim 1, wherein the dielectric layer includes a transparent insulating material layer.

10. (original) The LCD structure of claim 1, wherein the LCD further includes:  
a second substrate that is aligned to the first substrate panel;  
a second transparent conductive layer over the second substrate panel; and  
a liquid crystal layer between the second transparent conductive layer and the first transparent conductive layer.

11. (original) The LCD structure of claim 10, wherein the surface of the second substrate panel on the opposite side of the liquid crystal layer further includes a phase compensation plate and a polarizer.

12. (original) The LCD structure of claim 10, wherein the dielectric layer includes a transparent insulating material layer.

13. (original) The LCD structure of claim 12, wherein the LCD further includes a color filter layer between the second substrate panel and the second transparent conductive layer.

Claims 14-23 (cancelled)

24. (withdrawn) A liquid crystal display (LCD) structure, comprising:

a first substrate panel with a plurality of pixel portions being formed by respective electrodes for applying a voltage to the liquid crystal layer, each of the pixel portions comprising:

an organic insulating layer over the first substrate panel, wherein the surface of the organic insulating layer has a plurality of protrude/recess structures or bumps;

a plurality of reflectors over the organic insulating layer such that portions of the organic insulating layer are exposed, wherein the reflectors exposes about 1 to 60% of the overall organic insulating layer area, the reflectors form a reflector of light and the exposed organic insulating areas form the transmission areas, and the reflectors and the exposed organic insulating areas are alternately laid with respect to each other;

a dielectric layer over the reflectors and the exposed organic insulating areas, wherein the upper surface of the dielectric layer is smoother than the protrude/recess structure of the organic insulating layer; and a first transparent conductive layer over the dielectric layer.

25. (withdrawn) The LCD structure of claim 24, wherein each protrude/recess structure may be divided into a first region and a second region depending on the viewing angle according to the following relationship:

assuming a beam of incoming light strikes a surface having protrude/recess structures covered by a reflective layer entirely and produces reflected lights, if the reflected lights distribute within a preferable observation range, the region in the protrude/recess structure that corresponds to such a range is defined to be the first region serving as the reflectors region, and if the reflected light spreads outside the preferable observation range, the region in the protrude/recess structure that correspond to such difficult-to-see range is defined to be the second region where the reflectors are removed, and the exposed transmission areas are in the second region.

26. (withdrawn) The LCD structure of claim 24, wherein the LCD further includes a thin film transistor having a gate electrode, a source terminal and a drain terminal over the first substrate panel.

27. (withdrawn) The LCD structure of claim 24, wherein the dielectric layer includes a color filter layer.

28. (withdrawn) The LCD structure of claim 24, wherein the dielectric layer includes a transparent insulating material layer.

29. (withdrawn) The LCD structure of claim 24, wherein the LCD further includes:

a second substrate panel corresponding to the first substrate panel;

a second transparent conductive layer over the second substrate panel; and

a liquid crystal layer between the second transparent conductive layer and the first transparent conductive layer.

30. (withdrawn) The LCD structure of claim 29, wherein the LCD further includes a phase compensation plate and a polarizer on each exterior-facing side of the first substrate panel and the second substrate panel away from the liquid crystal layer.

31. (withdrawn) The LCD structure of claim 29, wherein the dielectric layer includes a transparent insulating material layer.

32. (withdrawn) The LCD structure of claim 31, wherein the LCD further includes a color filter layer between the second substrate panel and the second transparent conductive layer.

33. (withdrawn) The LCD structure of claim 29, wherein the LCD further includes a back lighting system attached to the side of the first substrate panel on the other side of the second substrate panel such that a portion of the emitted light from the back lighting system passes through the transmission electrode, and the remaining portion of the emitted light reflects back from the reflective electrode and reused.

Claims 34-43 (cancelled)